

IAP20 Receipt Date 27 APR 2006

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		CUSTOMER NO. 22,852
		ATTORNEY'S DOCKET NUMBER <b>06854.0051</b>
		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>1071452</b>
INTERNATIONAL APPLICATION NO. <b>PCT/JP2004/016451</b>	INTERNATIONAL FILING DATE <b>October 29, 2004</b>	PRIORITY DATE CLAIMED <b>October 31, 2003</b>
TITLE OF INVENTION <b>GAS INJECTION AMOUNT DETERMINING METHOD IN ISOTOPE GAS ANALYSIS, AND ISOTOPE GAS ANALYZING AND MEASURING METHOD AND APPARATUS</b>		
APPLICANT(S) FOR DO/EO/US <b>1) Masaaki MORI; 2) Yasuhiro KUBO; 3) Yasushi ZASU; 4) Masayuki TANI; 5) Tamotsu HAMAO</b>		
Applicant(s) herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)).</p> <ul style="list-style-type: none"><li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li><li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li><li>c. <input type="checkbox"/> is not required, as the application was filed with the United States Receiving Office (RO/US).</li></ul> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <ul style="list-style-type: none"><li>a. <input type="checkbox"/> is attached hereto.</li><li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li></ul> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)).</p> <ul style="list-style-type: none"><li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li><li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li><li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li><li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li></ul> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</p>		
Items 11 to 20 below concern document(s) or information included:		
<p>11. <input checked="" type="checkbox"/> Information Disclosure Statement under 37 CFR 1.97 and 1.98</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A Substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13/er.2 and 35 U.S.C. 1.821-1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154 (d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application 35 U.S.C. 154 (d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information:</p> <ul style="list-style-type: none"><li>a. <input checked="" type="checkbox"/> Copy of cover page of International Publication No. WO 2005/041769 A1</li><li>b. <input type="checkbox"/> Copy of Notification of Missing Requirements.</li><li>c. <input checked="" type="checkbox"/> Copy of International Search Report from the European Patent Office.</li></ul>		

APR 27 APR 2006

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER 06854.0051																																																																																																																																																																																													
<b>10/1577451</b>		<b>PCT/JP2004/016451</b>																																																																																																																																																																																															
<p>The following fees have been submitted:</p> <table border="1"> <tr> <td>21. <input checked="" type="checkbox"/> BASIC NATIONAL FEE (37 CFR 1.492(a)): .....</td> <td>\$300.00</td> <td>CALCULATIONS</td> <td>PTO Use Only</td> </tr> <tr> <td></td> <td>\$ 300.00</td> <td></td> <td></td> </tr> <tr> <td>22. <input checked="" type="checkbox"/> Examination fee (37CFR 1.492(c))</td> <td></td> <td></td> <td></td> </tr> <tr> <td>If the Written opinion prepared by ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .....</td> <td>\$0</td> <td></td> <td></td> </tr> <tr> <td>All other situations.....</td> <td>\$200</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>\$ 200.00</td> <td></td> </tr> <tr> <td>23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))</td> <td></td> <td></td> <td></td> </tr> <tr> <td>If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .....</td> <td>\$0</td> <td></td> <td></td> </tr> <tr> <td>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....</td> <td>\$100</td> <td></td> <td></td> </tr> <tr> <td>International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB .....</td> <td>\$400</td> <td></td> <td></td> </tr> <tr> <td>All other situations.....</td> <td>\$500</td> <td></td> <td>\$ 400.00</td> </tr> <tr> <td colspan="2"><b>TOTAL of 21, 22 and 23 =</b></td> <td colspan="2"><b>\$ 900.00</b></td> <td colspan="2"></td> </tr> <tr> <td colspan="6"> <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).            The fee is \$250 for each additional 50 sheets of paper or fraction thereof.         </td> </tr> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof (round up to a whole number)</td> <td>Rate</td> <td colspan="2"></td> </tr> <tr> <td><b>35</b></td> <td></td> <td></td> <td><b>x \$250.00</b></td> <td colspan="2">\$</td> </tr> <tr> <td colspan="6">Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).</td> </tr> <tr> <td>CLAIMS</td> <td>NUMBER FILED</td> <td>NUMBER EXTRA</td> <td>RATE</td> <td colspan="2"></td> </tr> <tr> <td>Total Claims</td> <td><b>8</b></td> <td></td> <td><b>x \$50.00</b></td> <td colspan="2">\$</td> </tr> <tr> <td>Independent Claims</td> <td><b>3</b></td> <td></td> <td><b>x \$200.00</b></td> <td colspan="2">\$</td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td></td> <td><b>+\$360.00</b></td> <td colspan="2">\$ 360.00</td> </tr> <tr> <td colspan="4"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td colspan="2"><b>\$1260.00</b></td> </tr> <tr> <td colspan="6"> <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.  <b>SUBTOTAL =</b> \$1260.00         </td> </tr> <tr> <td colspan="6">Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest priority date (37 CFR 1.492(i)).</td> </tr> <tr> <td colspan="4"><b>TOTAL NATIONAL FEE =</b></td> <td colspan="2"><b>\$1260.00</b></td> </tr> <tr> <td colspan="6">Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property.</td> </tr> <tr> <td colspan="4"><b>TOTAL FEES ENCLOSED =</b></td> <td colspan="2"><b>\$1300.00</b></td> </tr> <tr> <td colspan="4"></td> <td>Amount to be refunded:</td> <td>\$</td> </tr> <tr> <td colspan="4"></td> <td>charged:</td> <td>\$</td> </tr> <tr> <td colspan="6">           a. <input checked="" type="checkbox"/> A check in the amount of <u>\$1300.00</u> to cover the above fees is enclosed.            b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.            A duplicate copy of this sheet is enclosed.            c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>06-0916</u>. A duplicate copy of this sheet is enclosed.            d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.         </td> </tr> <tr> <td colspan="6">NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</td> </tr> <tr> <td colspan="6">SEND ALL CORRESPONDENCE TO:</td> </tr> <tr> <td colspan="6">             Finnegan, Henderson, Farabow, Garrett &amp; Dunner, L.L.P.            901 New York Avenue, N.W.            Washington, DC 20001-4413         </td> </tr> <tr> <td colspan="6">Ernest F. Chapman, Reg. No. 25,961</td> </tr> <tr> <td colspan="6">NAME/REGISTRATION NUMBER</td> </tr> <tr> <td colspan="6">DATED: April 27, 2006</td> </tr> </table>						21. <input checked="" type="checkbox"/> BASIC NATIONAL FEE (37 CFR 1.492(a)): .....	\$300.00	CALCULATIONS	PTO Use Only		\$ 300.00			22. <input checked="" type="checkbox"/> Examination fee (37CFR 1.492(c))				If the Written opinion prepared by ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .....	\$0			All other situations.....	\$200					\$ 200.00		23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))				If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .....	\$0			Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....	\$100			International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB .....	\$400			All other situations.....	\$500		\$ 400.00	<b>TOTAL of 21, 22 and 23 =</b>		<b>\$ 900.00</b>				<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	Rate			<b>35</b>			<b>x \$250.00</b>	\$		Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).						CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE			Total Claims	<b>8</b>		<b>x \$50.00</b>	\$		Independent Claims	<b>3</b>		<b>x \$200.00</b>	\$		MULTIPLE DEPENDENT CLAIM(S) (if applicable)			<b>+\$360.00</b>	\$ 360.00		<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$1260.00</b>		<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½. <b>SUBTOTAL =</b> \$1260.00						Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest priority date (37 CFR 1.492(i)).						<b>TOTAL NATIONAL FEE =</b>				<b>\$1260.00</b>		Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property.						<b>TOTAL FEES ENCLOSED =</b>				<b>\$1300.00</b>						Amount to be refunded:	\$					charged:	\$	a. <input checked="" type="checkbox"/> A check in the amount of <u>\$1300.00</u> to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>06-0916</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.						NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.						SEND ALL CORRESPONDENCE TO:						 Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. 901 New York Avenue, N.W. Washington, DC 20001-4413						Ernest F. Chapman, Reg. No. 25,961						NAME/REGISTRATION NUMBER						DATED: April 27, 2006					
21. <input checked="" type="checkbox"/> BASIC NATIONAL FEE (37 CFR 1.492(a)): .....	\$300.00	CALCULATIONS	PTO Use Only																																																																																																																																																																																														
	\$ 300.00																																																																																																																																																																																																
22. <input checked="" type="checkbox"/> Examination fee (37CFR 1.492(c))																																																																																																																																																																																																	
If the Written opinion prepared by ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .....	\$0																																																																																																																																																																																																
All other situations.....	\$200																																																																																																																																																																																																
		\$ 200.00																																																																																																																																																																																															
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))																																																																																																																																																																																																	
If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .....	\$0																																																																																																																																																																																																
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....	\$100																																																																																																																																																																																																
International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB .....	\$400																																																																																																																																																																																																
All other situations.....	\$500		\$ 400.00																																																																																																																																																																																														
<b>TOTAL of 21, 22 and 23 =</b>		<b>\$ 900.00</b>																																																																																																																																																																																															
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.																																																																																																																																																																																																	
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	Rate																																																																																																																																																																																														
<b>35</b>			<b>x \$250.00</b>	\$																																																																																																																																																																																													
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).																																																																																																																																																																																																	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE																																																																																																																																																																																														
Total Claims	<b>8</b>		<b>x \$50.00</b>	\$																																																																																																																																																																																													
Independent Claims	<b>3</b>		<b>x \$200.00</b>	\$																																																																																																																																																																																													
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			<b>+\$360.00</b>	\$ 360.00																																																																																																																																																																																													
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$1260.00</b>																																																																																																																																																																																													
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½. <b>SUBTOTAL =</b> \$1260.00																																																																																																																																																																																																	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest priority date (37 CFR 1.492(i)).																																																																																																																																																																																																	
<b>TOTAL NATIONAL FEE =</b>				<b>\$1260.00</b>																																																																																																																																																																																													
Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property.																																																																																																																																																																																																	
<b>TOTAL FEES ENCLOSED =</b>				<b>\$1300.00</b>																																																																																																																																																																																													
				Amount to be refunded:	\$																																																																																																																																																																																												
				charged:	\$																																																																																																																																																																																												
a. <input checked="" type="checkbox"/> A check in the amount of <u>\$1300.00</u> to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>06-0916</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.																																																																																																																																																																																																	
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.																																																																																																																																																																																																	
SEND ALL CORRESPONDENCE TO:																																																																																																																																																																																																	
 Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. 901 New York Avenue, N.W. Washington, DC 20001-4413																																																																																																																																																																																																	
Ernest F. Chapman, Reg. No. 25,961																																																																																																																																																																																																	
NAME/REGISTRATION NUMBER																																																																																																																																																																																																	
DATED: April 27, 2006																																																																																																																																																																																																	